Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P319198

Luminaire Tested: **GLEON-SA4B-830-U-T4W**

Issue Date: 3/3/2020

Report Generated By E0585644

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P319198
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-SA4B-830-U-T4W
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18190 lumens
Efficiency:	N/A
Efficacy:	106.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	171
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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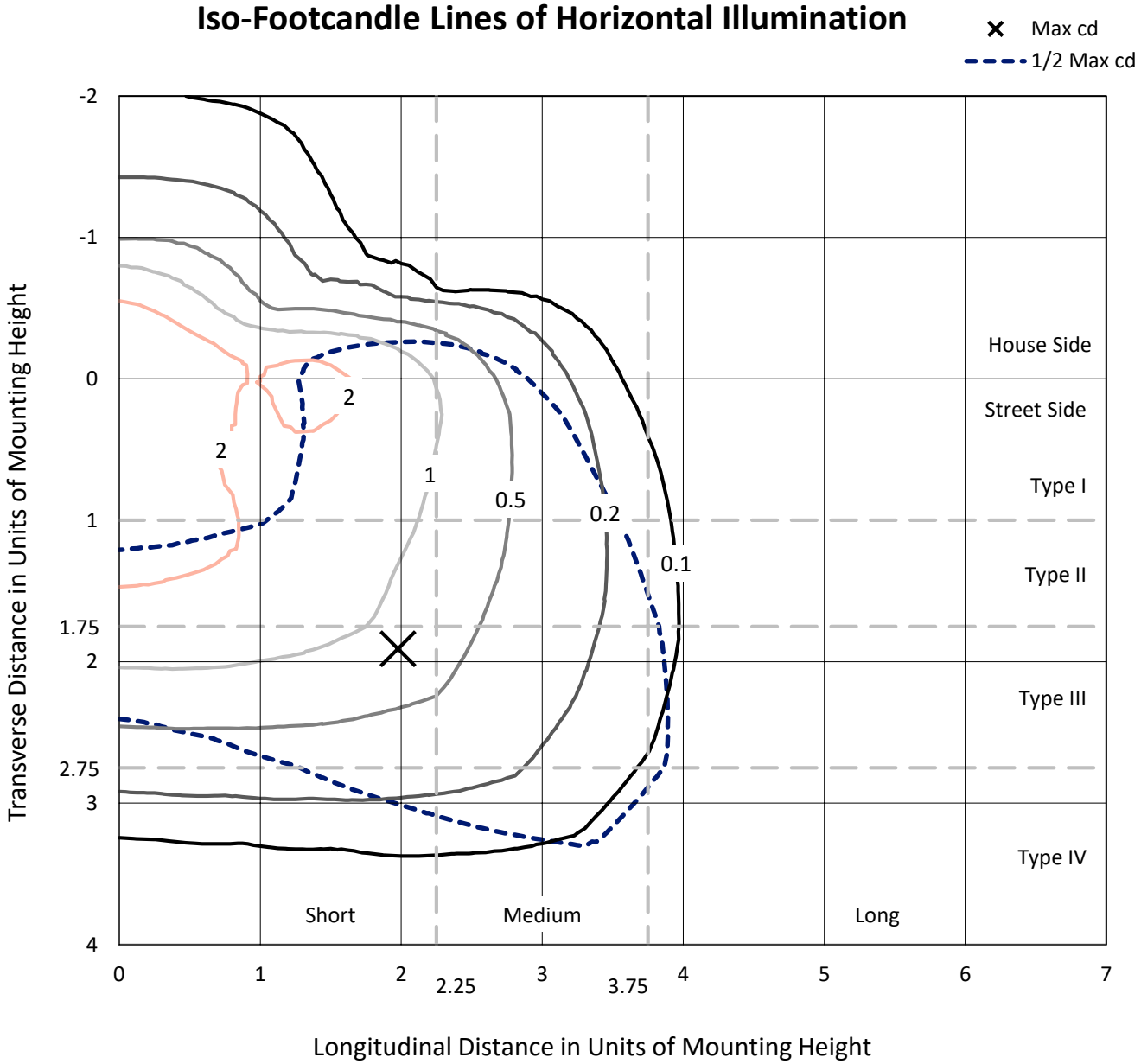
Scaled Data Report

REPORT NUMBER: P319198
CATALOG NUMBER: GLEON-SA4B-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type IV - Short - N/A

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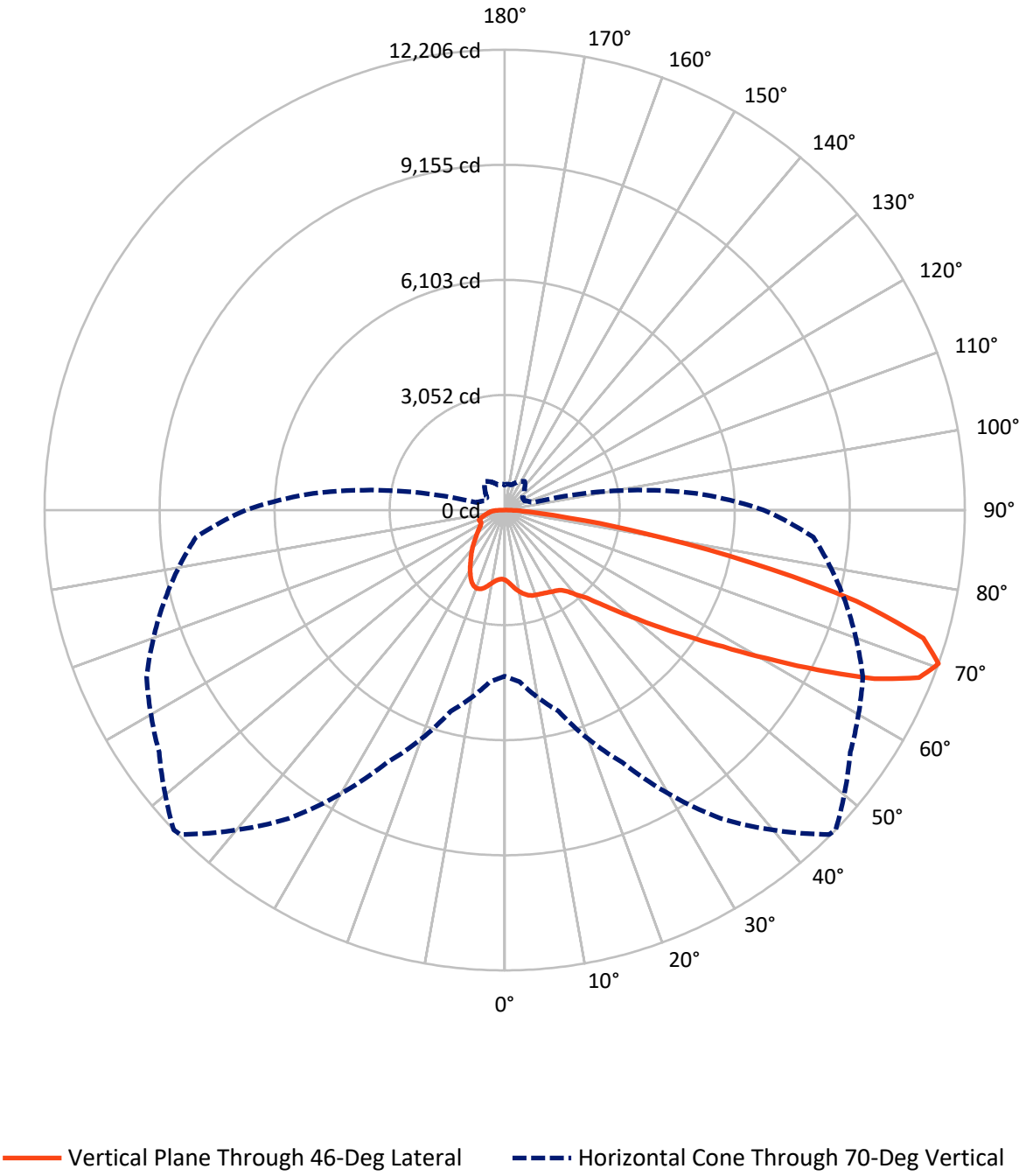
Luminous Intensity Polar Plot



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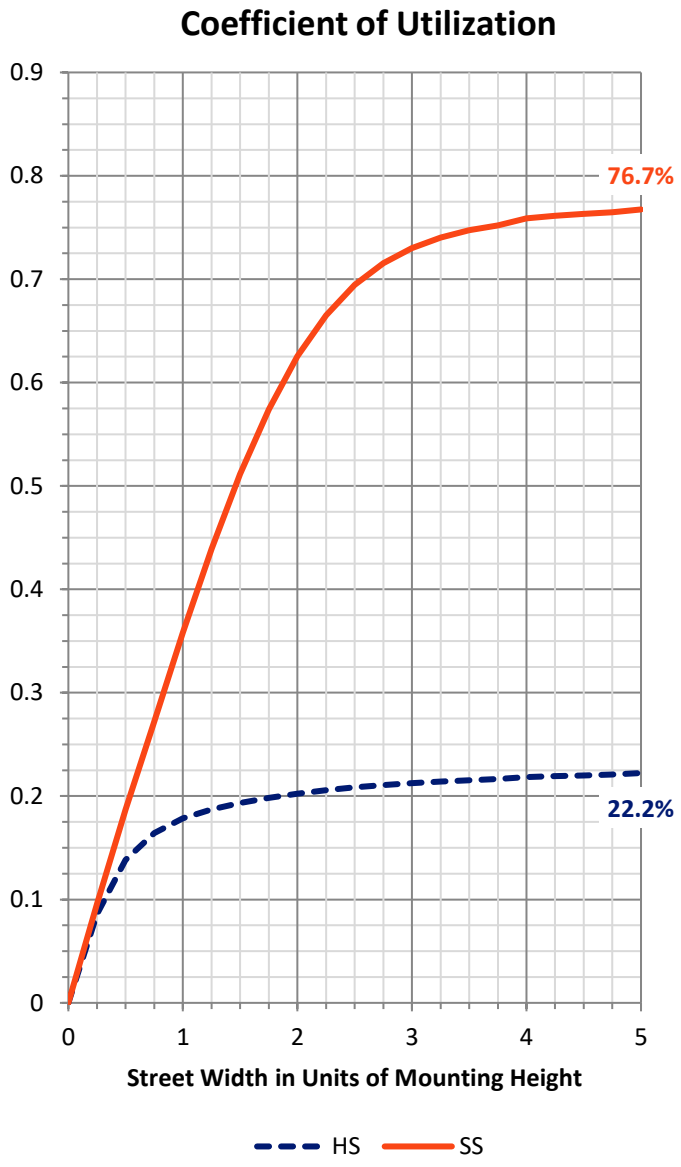
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4169.1	0.0	4169.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14020.9	0.0	14020.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	18190.0	0.0	18190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	1.0
10°-20°	629.4	3.5
20°-30°	1049.5	5.8
30°-40°	1489.3	8.2
40°-50°	2190.7	12.0
50°-60°	3709.9	20.4
60°-70°	5266.1	29.0
70°-80°	3199.2	17.6
80°-90°	466.9	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18190.0	100.0
0°-180°	18190.0	100.0



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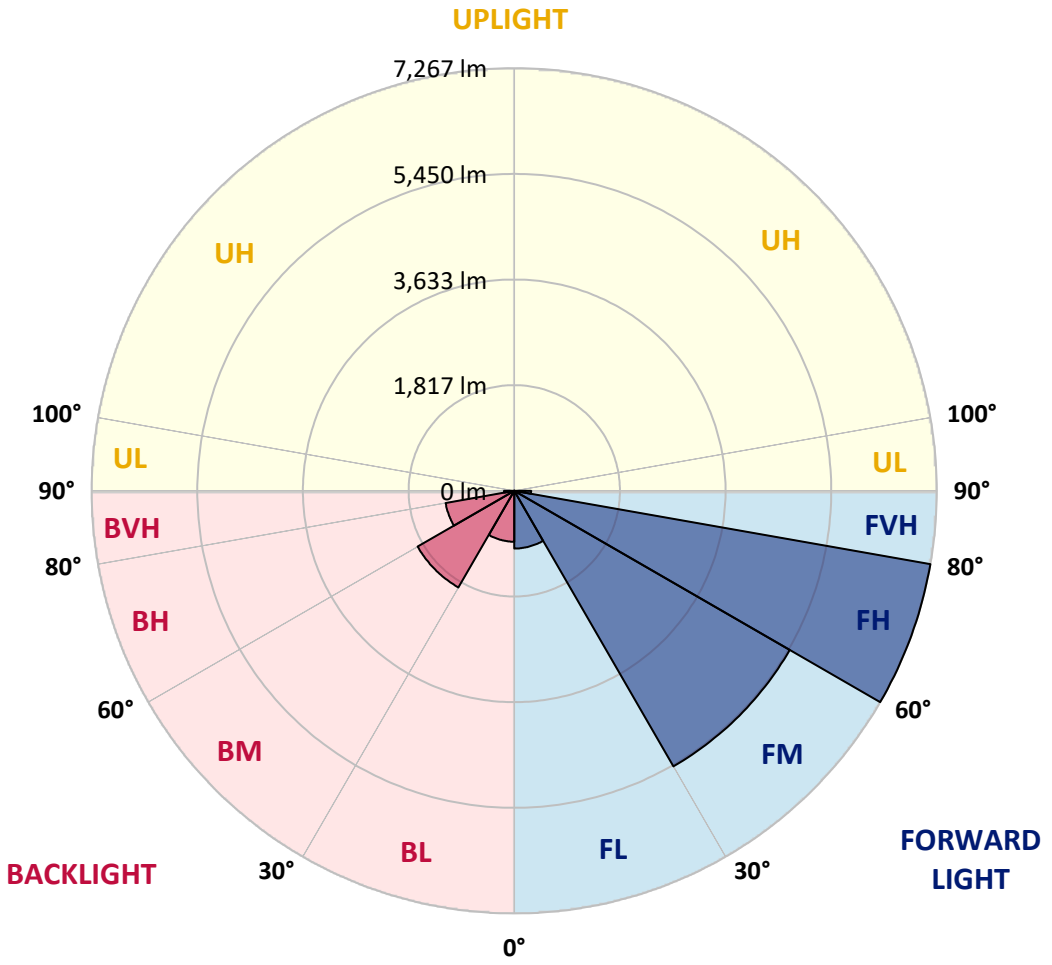
REPORT NUMBER: P319198
CATALOG NUMBER: GLEON-SA4B-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	992.5	5.5			
FM	(30°-60°)	5470.7	30.1			
FH	(60°-80°)	7266.8	39.9			G3/7500
FVH	(80°-90°)	290.8	1.6			G3/500
BL	(0°-30°)	875.3	4.8	B2/1000		
BM	(30°-60°)	1919.1	10.6	B2/2500		
BH	(60°-80°)	1198.6	6.6	B3/2500		G3/2500
BVH	(80°-90°)	176.1	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type IV Short



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REPORT NUMBER: P319198
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	*1853.2*	1853.2	1853.2	1853.2	1853.2
2.5°	1946.0	1947.2	1949.7	1943.5	1926.0	1921.1	*1919.2*	1901.1	1889.3	1871.9	1856.9
5°	2101.6	2102.8	2099.1	2081.7	2043.1	2014.4	*2011.9*	1970.9	1933.5	1893.7	1863.8
7.5°	2264.1	2265.9	2254.1	2221.1	2166.9	2117.1	*2114.0*	2058.0	2001.4	1941.0	1896.2
10°	2407.9	2400.4	2381.1	2335.0	2270.9	2209.9	*2207.4*	2148.9	2083.5	2010.7	1950.9
12.5°	2503.7	2497.5	2472.6	2416.6	2346.2	2290.2	*2285.2*	2231.1	2167.6	2087.9	2016.3
15°	2556.6	2561.0	2527.4	2463.9	2395.4	2348.1	*2343.7*	2305.1	2248.5	2168.2	2086.0
17.5°	2563.5	2567.2	2534.9	2472.0	2416.0	2383.6	*2381.7*	2356.2	2315.1	2237.9	2152.0
20°	2523.6	2526.1	2499.4	2447.7	2411.0	2401.0	*2400.4*	2389.2	2358.7	2290.2	2206.8
22.5°	2465.8	2467.6	2448.3	2411.0	2398.5	2414.1	*2418.4*	2414.1	2392.3	2328.2	2249.7
25°	2451.4	2450.2	2430.3	2392.3	2402.9	2435.9	*2441.5*	2443.3	2428.4	2372.4	2304.5
27.5°	2520.5	2516.2	2478.2	2417.2	2424.0	2463.9	*2471.4*	2489.4	2480.1	2430.9	2366.8
30°	2720.4	2712.9	2635.1	2511.8	2478.2	2498.7	*2508.1*	2536.7	2538.6	2497.5	2449.6
32.5°	3057.8	3048.4	2909.0	2688.6	2569.7	2534.2	*2542.9*	2585.9	2608.9	2577.2	2525.5
35°	3484.2	3473.6	3290.6	2989.3	2722.8	2602.1	*2608.3*	2642.5	2688.6	2643.8	2575.3
37.5°	3928.6	3903.1	3727.0	3342.9	2966.2	2747.1	*2747.1*	2751.5	2773.3	2679.9	2633.8
40°	4370.6	4345.1	4185.7	3758.7	3281.2	2975.6	*2961.3*	2864.8	2847.3	2767.0	2751.5
42.5°	4781.5	4774.0	4680.0	4228.7	3651.0	3200.3	*3180.4*	3016.7	3020.4	2970.6	2971.2
45°	5218.5	5218.5	5141.9	4703.0	4081.8	3561.4	*3541.4*	3300.5	3337.9	3314.9	3370.3
47.5°	5575.2	5586.4	5575.8	5197.3	4582.9	4020.2	*3984.0*	3694.0	3798.5	3877.6	4038.8
50°	5939.3	5956.8	5958.6	5739.5	5188.6	4565.5	*4524.4*	4216.2	4449.7	4676.3	4993.1
52.5°	6467.9	6507.1	6350.8	6280.5	5930.6	5212.9	*5172.4*	4887.9	5277.6	5595.7	6141.7
55°	6957.8	6923.5	6812.1	6855.7	6724.9	5949.9	*5919.4*	5669.8	6200.2	6613.5	7322.6
57.5°	7223.0	7220.5	7332.5	7519.3	7581.5	6858.8	*6833.3*	6590.5	7240.4	7551.0	8431.2
60°	7534.2	7538.6	7816.2	8240.1	8496.6	7990.5	*7979.3*	7795.0	8250.7	8426.3	9300.9
62.5°	7577.8	7656.2	8134.3	8863.9	9353.2	9312.7	*9337.6*	8880.1	9154.6	9124.7	9950.2
65°	7076.7	7180.0	8045.3	9052.5	10204.8	10758.8	*10781.8*	9971.3	9867.4	9721.7	10182.4
67.5°	6049.5	6202.7	7142.7	8642.3	10485.5	11827.6	*11860.0*	10817.3	10458.7	9924.0	9623.3
70°	*4402.4*	*4572.3*	*5518.5*	*7381.1*	*9985.0*	*12169.4*	*12206.1*	*11191.4*	*10481.2*	*9348.2*	*8215.2*
72.5°	2659.4	2792.6	3572.6	5433.9	8427.5	11546.9	*11612.3*	10717.1	9569.2	7918.3	6066.3
75°	1167.8	1255.0	1727.5	3131.2	6033.3	9553.6	*9635.2*	9173.3	7775.1	5754.5	3585.6
77.5°	497.4	522.3	708.4	1360.2	3410.7	6528.2	*6640.3*	6702.5	5275.1	3131.2	1515.2
80°	310.0	320.0	400.9	615.7	1596.1	3666.6	*3787.3*	3943.6	2619.5	1151.0	529.1
82.5°	188.6	199.8	266.4	372.3	831.0	1662.1	*1720.0*	1830.2	1016.6	497.4	273.9
85°	113.3	121.4	163.1	235.3	473.1	653.6	*653.0*	722.1	478.7	320.0	144.4
87.5°	54.2	60.4	87.2	122.0	238.4	245.3	*229.7*	260.2	290.7	209.8	72.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0

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REPORT NUMBER: P319198
CATALOG NUMBER: GLEON-SA4B-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2
2.5°	1852.0	1849.5	1841.4	1835.2	1833.9	1830.2	1827.1	1828.9	1831.4	1832.0	1832.0
5°	1851.3	1844.5	1833.9	1829.5	1835.2	1842.6	1852.0	1864.4	1871.9	1877.5	1881.2
7.5°	1881.2	1868.1	1856.3	1853.8	1865.0	1885.0	1906.1	1932.3	1950.3	1962.8	1965.3
10°	1931.0	1914.8	1903.0	1905.5	1925.4	1954.1	1983.9	2017.5	2044.9	2061.7	2063.0
12.5°	1988.3	1972.7	1961.5	1972.1	2005.1	2040.0	2071.1	2100.3	2125.2	2142.0	2142.0
15°	2054.3	2043.1	2030.0	2054.3	2099.1	2130.2	2143.3	2157.6	2171.3	2183.8	2181.3
17.5°	2117.8	2107.2	2100.3	2129.0	2175.7	2190.0	2181.3	2170.7	2170.7	2177.5	2178.8
20°	2172.6	2163.2	2167.6	2195.6	2219.9	2204.9	2172.6	2138.9	2125.2	2129.0	2132.7
22.5°	2220.5	2216.1	2229.2	2242.3	2224.8	2172.6	2112.8	2067.3	2050.5	2049.3	2050.5
25°	2276.5	2275.9	2292.1	2268.4	2191.2	2094.7	2014.4	1970.2	1960.9	1968.4	1980.8
27.5°	2346.2	2353.1	2361.2	2274.6	2122.8	1977.1	1895.5	1865.0	1874.4	1892.4	1904.3
30°	2435.2	2453.9	2436.5	2259.1	2024.4	1842.6	1764.8	1756.1	1781.6	1807.1	1819.6
32.5°	2521.8	2551.0	2508.7	2218.6	1897.4	1700.1	1639.7	1637.2	1668.3	1693.2	1710.7
35°	2591.5	2649.4	2562.9	2138.3	1750.5	1568.7	1524.5	1507.7	1518.9	1548.2	1568.1
37.5°	2682.4	2778.9	2600.2	2015.7	1591.1	1460.4	1408.7	1370.1	1360.2	1372.0	1382.0
40°	2848.6	2976.2	2617.6	1844.5	1435.5	1352.1	1299.8	1243.1	1203.9	1175.3	1175.9
42.5°	3120.0	3233.3	2606.4	1636.6	1291.7	1246.3	1187.1	1121.8	1058.3	993.5	988.5
45°	3560.7	3615.5	2572.8	1416.2	1165.3	1135.5	1080.1	1014.7	930.0	856.6	849.7
47.5°	4266.0	4144.7	2520.5	1223.8	1053.9	1041.5	990.4	915.1	825.4	766.3	761.3
50°	5227.8	4908.5	2495.0	1070.7	955.5	959.3	917.6	837.9	753.2	709.7	704.7
52.5°	6378.2	5798.0	2544.2	952.4	876.5	889.6	858.4	783.7	712.8	678.5	673.6
55°	7571.6	6719.3	2597.1	866.5	801.8	827.3	816.7	755.1	691.0	659.2	654.9
57.5°	8593.1	7407.2	2491.3	796.8	735.2	775.0	784.4	737.0	679.8	651.1	646.2
60°	9236.1	7684.2	2213.6	731.4	682.3	733.3	765.7	732.1	684.1	681.6	677.9
62.5°	9541.2	7660.0	1797.2	679.8	649.3	715.3	779.4	760.1	733.9	756.3	758.2
65°	9404.2	7293.9	1338.4	645.5	625.6	722.1	820.5	813.0	748.3	770.7	773.8
67.5°	8502.8	6420.5	991.0	615.7	599.5	741.4	895.2	830.4	720.2	736.4	726.5
70°	*6872.5*	*5090.2*	*764.4*	*582.0*	*572.7*	*738.9*	*928.8*	*819.8*	*689.7*	*693.5*	*666.7*
72.5°	4739.1	3471.1	621.9	550.9	534.1	673.6	905.1	793.7	664.2	635.6	600.1
75°	2577.2	1863.2	528.5	518.5	466.3	591.4	861.6	775.0	641.2	603.2	583.3
77.5°	1014.1	773.2	458.8	474.4	407.7	522.3	813.0	739.5	609.4	559.6	549.7
80°	414.0	394.7	380.4	410.2	350.5	456.9	754.5	697.8	571.5	519.2	499.3
82.5°	234.7	245.3	295.7	323.7	284.5	420.8	726.5	664.2	526.0	465.0	441.4
85°	120.1	143.8	206.0	232.2	209.2	357.9	669.2	581.4	422.1	356.1	357.9
87.5°	57.9	80.3	130.1	145.7	135.7	259.0	499.9	421.4	328.7	260.2	252.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

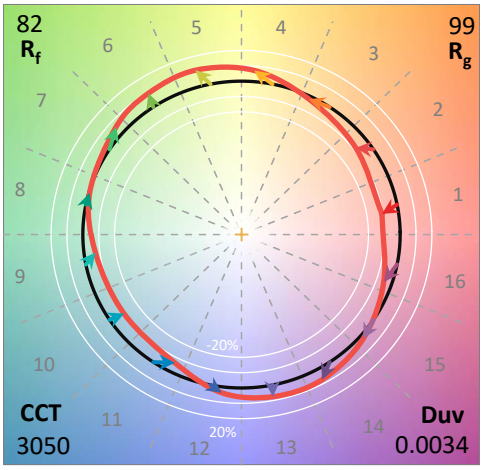
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

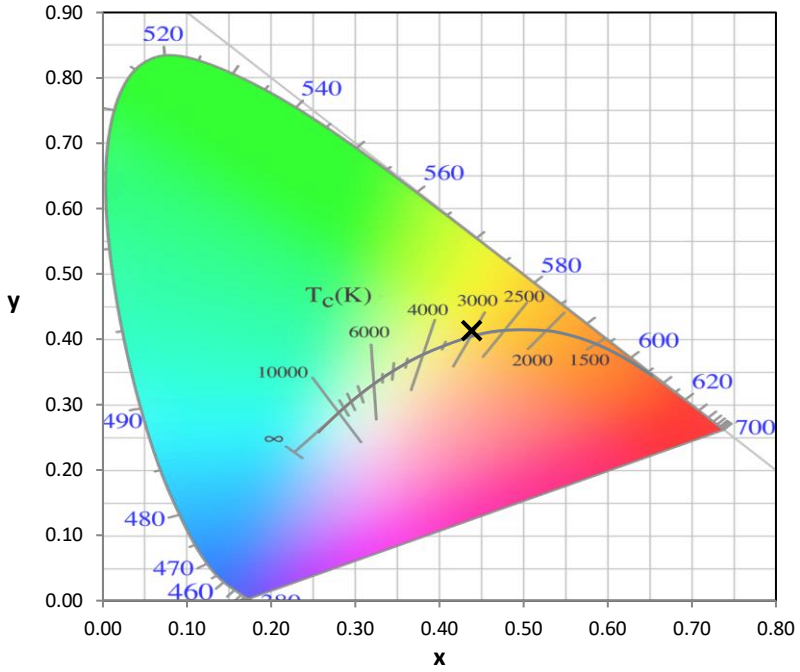
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

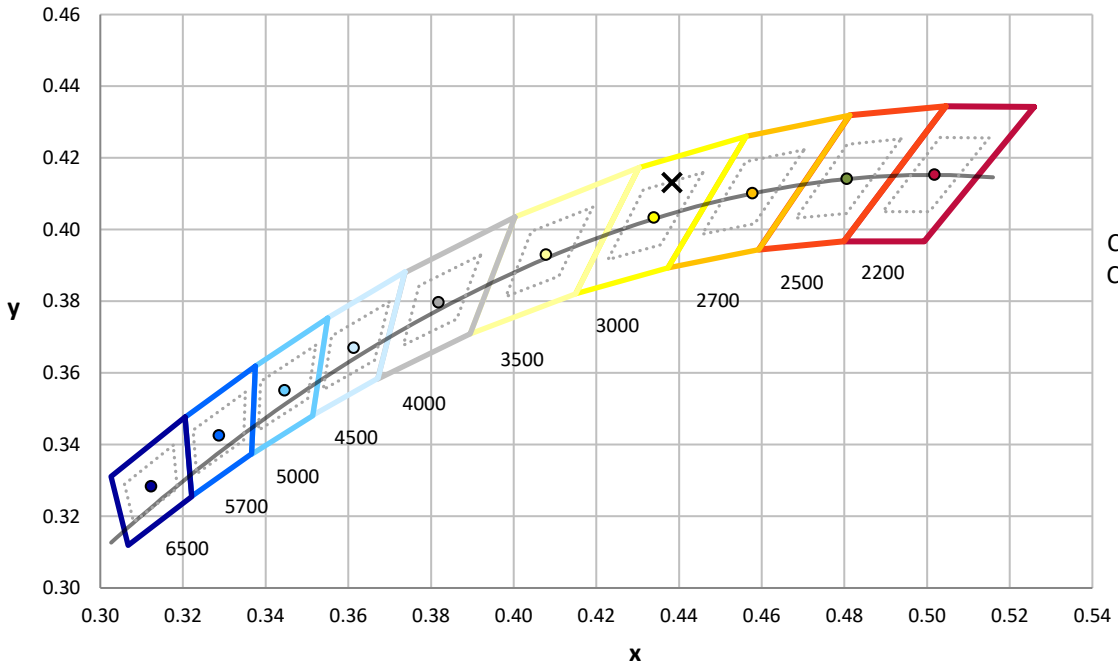
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

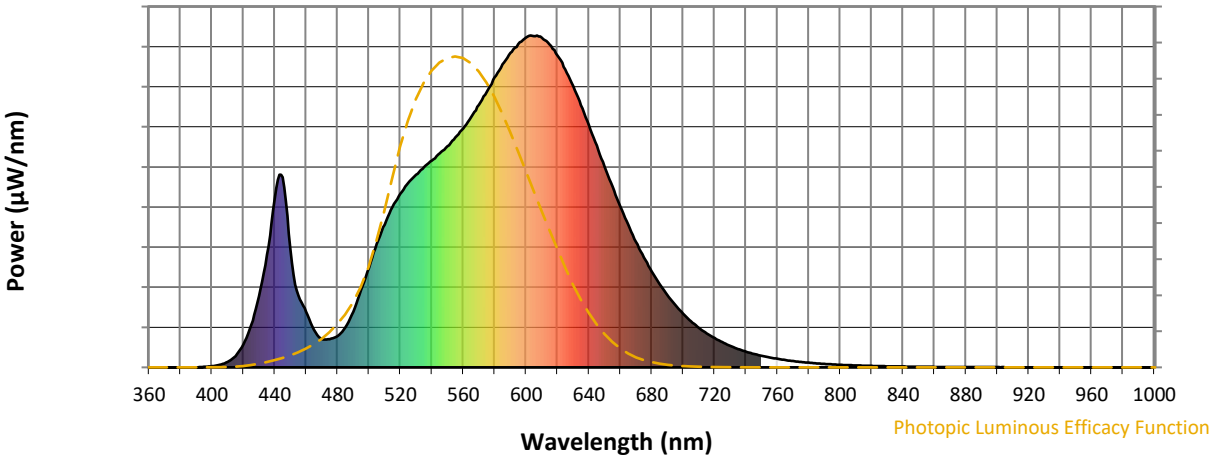


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

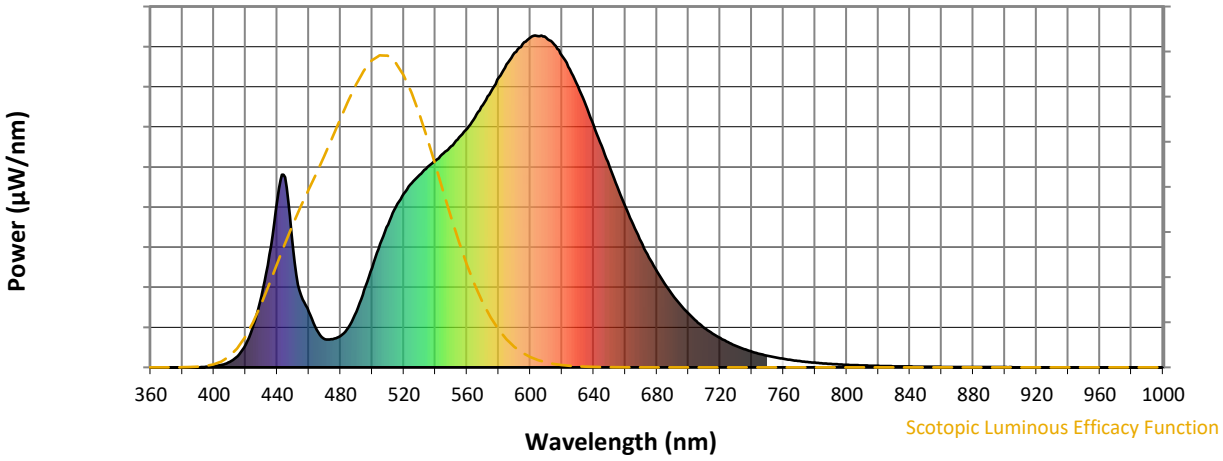


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

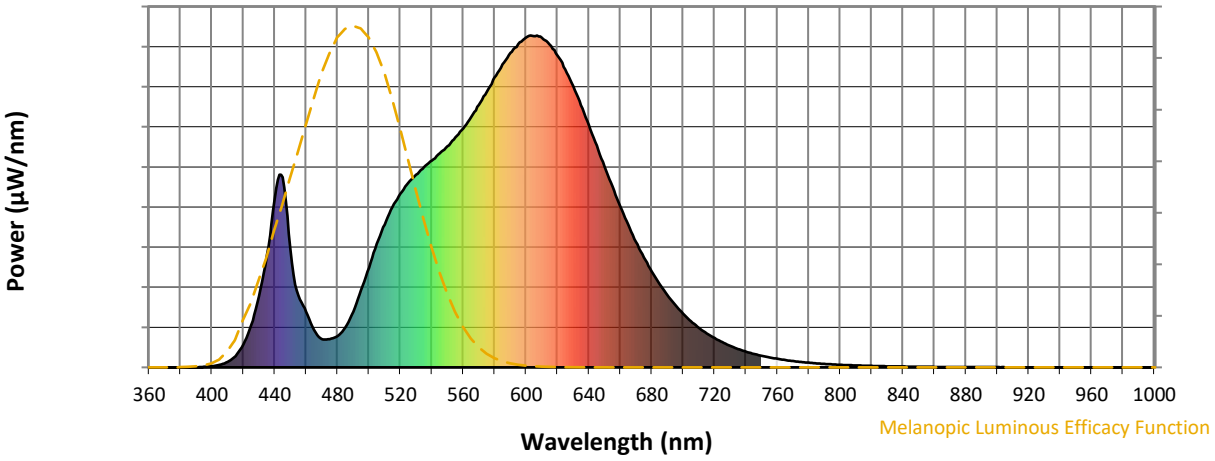


Scotopic Lumens: NR **S/P: 1.27**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

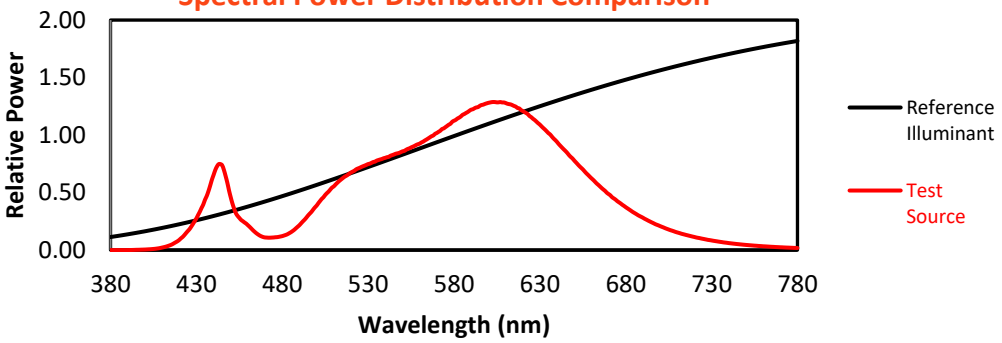
REPORT NUMBER: SP1-2408-195-9

TM-30-18

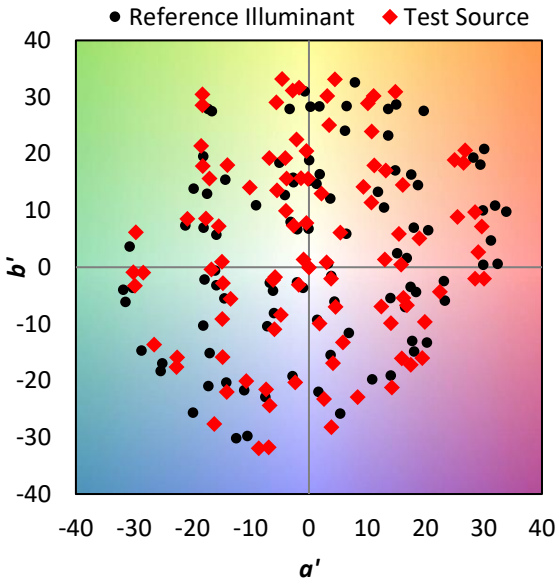
Summary

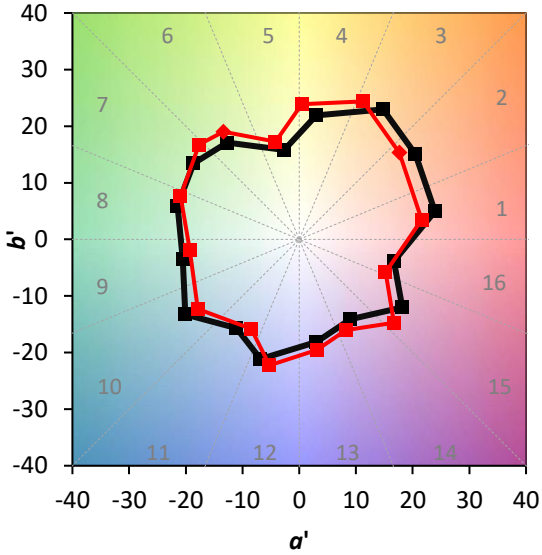
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

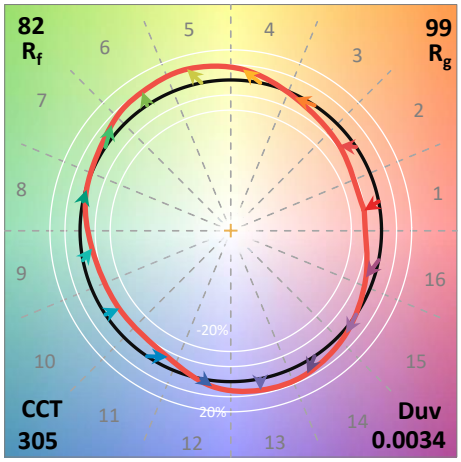
Spectral Power Distribution Comparison

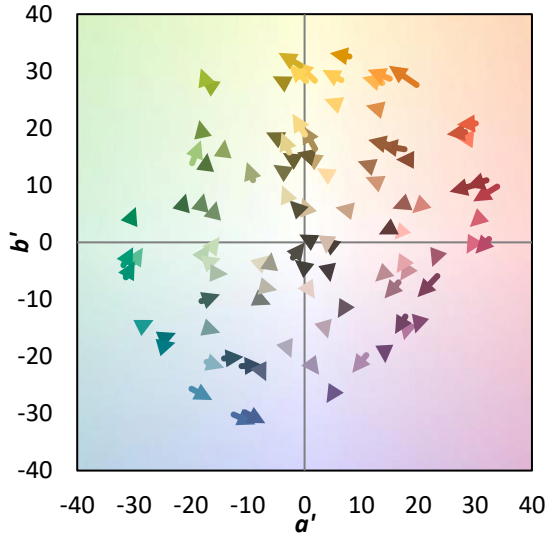


Color Vector Graphics







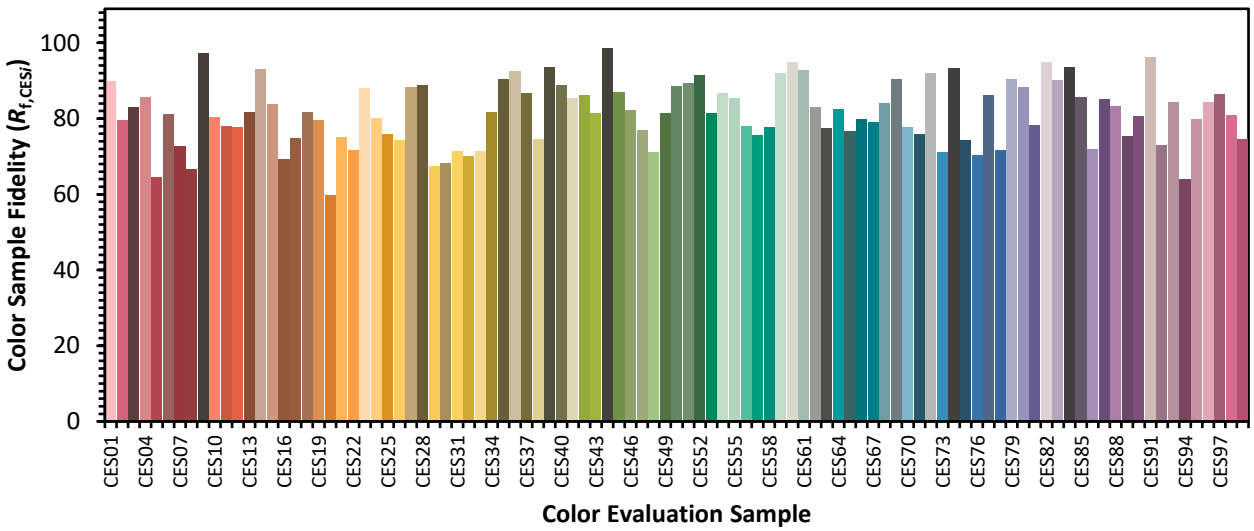


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Individual Sample Fidelity Index ($R_{f,i}$)

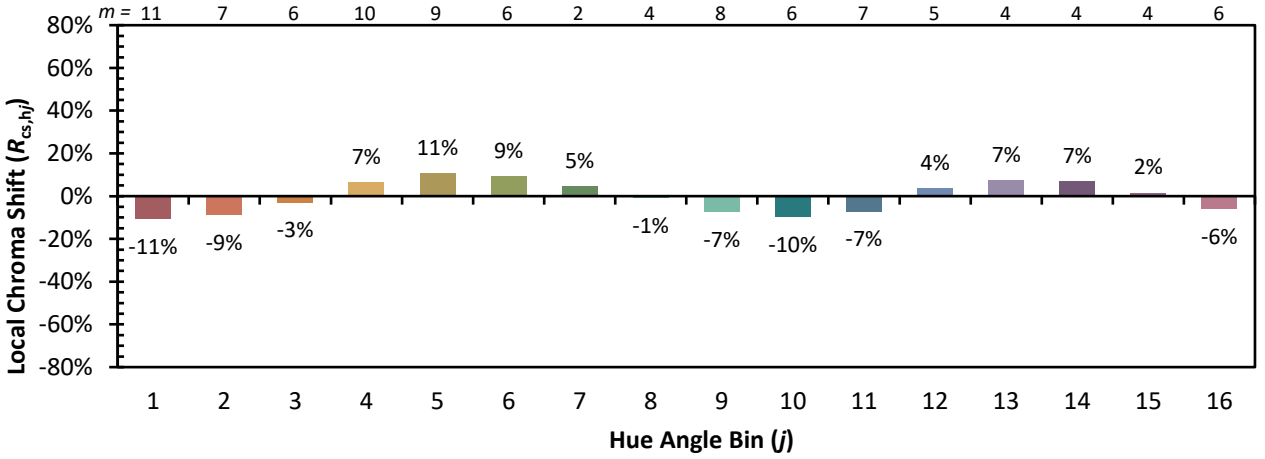
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	

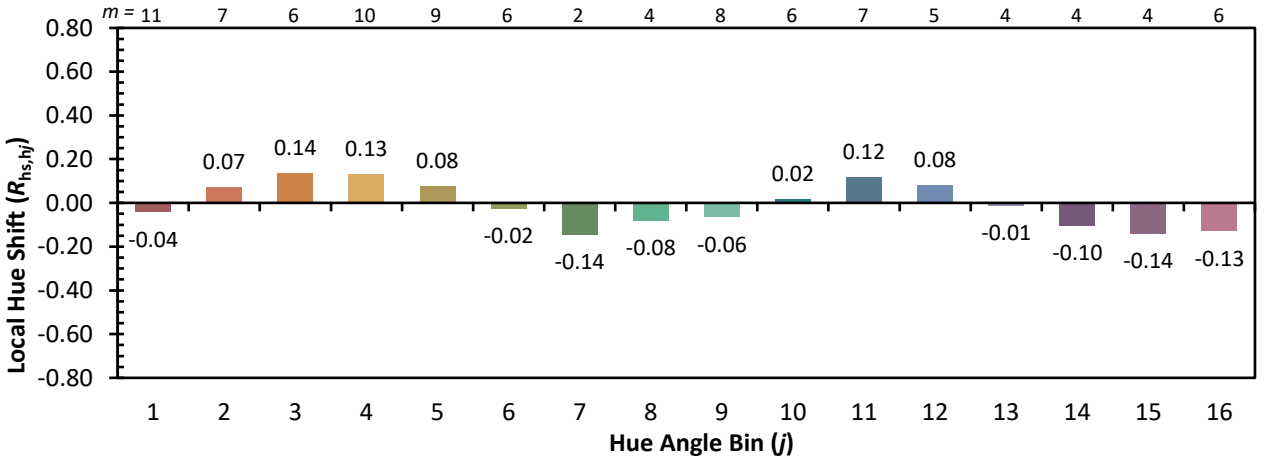


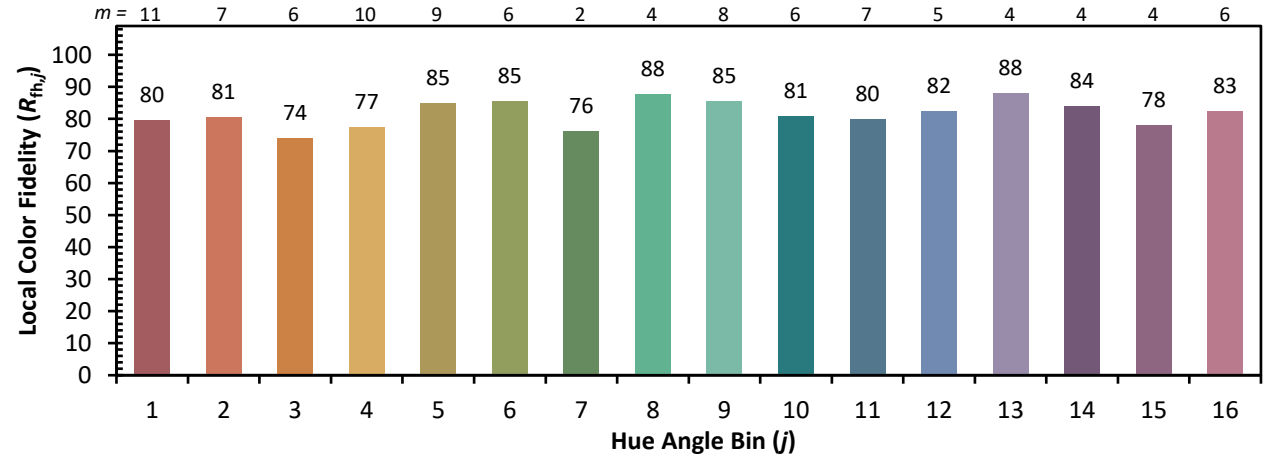
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



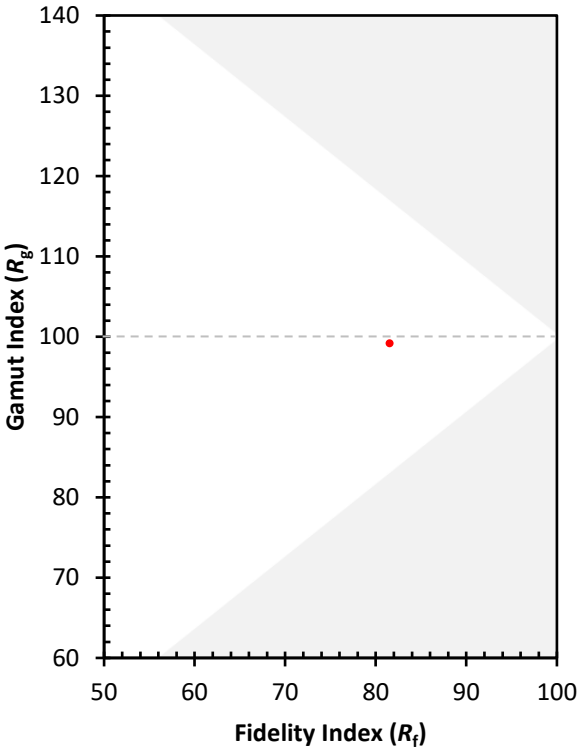


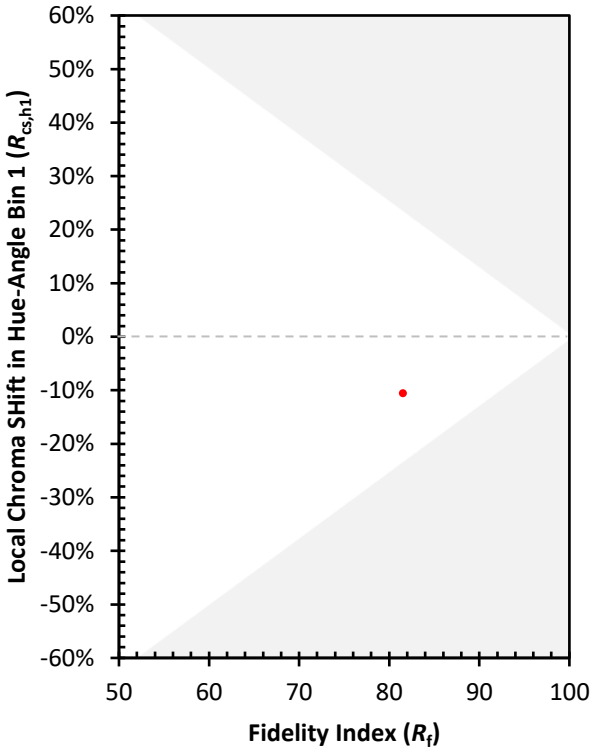


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)